

## **High Speed Super Miniature Slip Rings**



A slip ring allows infinite power and signal transmission from a static to a rotational platform, it is also called a rotary electrical interface, commutator, collector, swivel or an electrical rotary joint.

This high speed super miniature slip ring ADSR- TC12S is specially designed for aerospace and defense testing systems. It allows 12 x 1 Amps circuits and operating speed up to 3000rpm, extremely precise processing and superior concentricity enables it can keep reliable power and signal transmission capability under high speed operating condition. Designed and manufactured according to military standard, stainless steel housing enclosed for harsh environment operating. Self-contained stainless steel shaft makes mounting easier and space-saving.

### **Features**

- 10.8mm body diameter and 23.8mm length.
- Up to 3000rpm operating speed
- Up to 12 x 1Amp circuits
- Full stainless steel housing enclosed
- Self-contained stainless steel shaft for mounting
- Gold on gold contact
- Superior signal / data handling performance
- Military standard for harsh operating environments

## **Typical Applications**

- Aerospace test system
- Missile test system
- Petrochemical electrical test system
- Military test system
- Laboratory high speed test system

### **Advantages**

- Super precision design
- Compatible with high speed digital signal, thermocouple, sensor and communication signals etc.
- High reliability under vibration and shock
- Maintenance-free and long lifetime
- Suitable for aerospace and defense applications



# **Specification**

Electrical	
Voltage	240VAC
Rating Current	1A
Insulation Resistance	200MΩ@ 500VDC
Electric Noise	10mΩ @ 6VDC, 50mA, 5rpm
Dielectric Strength	500VAC @ 50Hz
Mechanical	
Operating Speed	3000 rpm
Torque	<0.01 N*M
Life	30,000,000 revolutions
Material	
Contact Material	Gold on gold
Lead Wires	AWG#32 high temperature wires
Housing	Stainless steel
Shaft	Stainless steel

Environmental	
Working Temperature	-40°C~ +80°C
Storage Temperature	-45°C~ +85°C
Vibration	MIL-STD-810G
Shock	MIL-STD-810G
Humidity	95±3% ( 30°C+5°C )
Protection	IP54

#### Options

- Housing shape
- Lead wires length
- Wire exists
- Connectors and heat shrink tube

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